

***FlyBy Math™* Alignment to  
Nevada Mathematics Content Standards  
February 25, 2003 Edition**

**Content Standard 3.0: Measurement**

*To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements.*

**Estimation and Formulas****Content Standard**

3.5.3 Estimate measures of length, volume, capacity, quantity, and weight, communicating degree of accuracy needed and when a more precise measure is required.

***FlyBy Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Predict outcomes and explain results of mathematical models and experiments.

**Time****Content Standard**

3.5.6 Identify equivalent periods of time, including relationships between and among seconds, minutes, hours, days, months, and years (e.g., 60 sec = 1 min).

***FlyBy Math™* Activities**

--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.

**Content Standard 4.0: Spatial Relationships and Geometry**

*To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will identify, represent, explain, verify, and apply spatial relationships and geometric properties.*

**Coordinate Geometry and Line of Symmetry****Content Standard**

4.5.3 Using a grid, identify coordinates for a given point or locate points of given coordinates in the first quadrant.

***FlyBy Math™* Activities**

--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

**Content Standard 5.0: Data Analysis**

*To solve problems, communicate, reason, and make connections within and beyond the field of mathematics, students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections.*

**Data Collection and Organization****Content Standard**

5.5.1 Collect, organize, read, and interpret data using a variety of graphic representations including tables, line plots, **stem and leaf plots**, scatter plots, **histograms**; use data to draw and explain conclusions

***FlyBy Math™* Activities**

--Conduct simulation and measurement for several aircraft conflict problems.

and predictions.

--Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

--Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs.